

Author Index Volume 24

- Afifi, A., see El Ridi, R. (24) 1
Agata, K., see Mochii, M. (24) 67
- Babiarz, B.S., see Hathaway, H.J. (24) 55
Bayle, D., see Didier, E. (24) 83
Braga, E.A., see Brodsky, V.Y. (24) 201
Brodsky, V.Y., Marshak, T.L., Karavanov, A.A., Zatssepina, O.V., Nosikov, V.V., Korochkin, L.I. and Braga, E.A.
Cell differentiation as assayed by the topography and number of ribosomal genes (24) 201
- Cantone, M., see Roccheri, M.C. (24) 209
Carlberg, M., see Emanuelsson, H. (24) 191
Cascino, D., see Roccheri, M.C. (24) 209
Chalumeau, M.T., see Vassy, J. (24) 9
Chanconie, M., see Graniou, M. (24) 179
Chevalier, M., see Didier, E. (24) 83
- Da Silva, A.M. and Juliani, M.H.
Regulation of tubulin and actin synthesis and accumulation during *Blastocladia emersonii* development (24) 45
Didier, E., Didier, P., Bayle, D. and Chevalier, M.
Lectin activity and distribution of chicken lactose lectin I in the extracellular matrix of the chick developing kidney (24) 83
Didier, P., see Didier, E. (24) 83
Don-Wheeler, G., see Jaskoll, T.F. (24) 105
- Eguchi, G., see Mochii, M. (24) 67
El Deeb, S., see El Ridi, R. (24) 1
El Ridi, R., Zada, S., Afifi, A., El Deeb, S., El Rouby, S., Farag, M. and Saad, A.-H.
Cyclic changes in the differentiation of lymphoid cells in reptiles (*Review*) (24) 1
El Rouby, S., see El Ridi, R. (24) 1
Emanuelsson, H., Carlberg, M. and Löwkvist, B.
Presence of serotonin in early chick embryos (24) 191
Endo, Y., see Suzuki, S. (24) 133
- Farag, M., see El Ridi, R. (24) 1
Ferraro, M.G., see Roccheri, M.C. (24) 209
Foucrier, J., see Vassy, J. (24) 9
Fukasawa, T., see Suzuki, S. (24) 133
- Gelfand, I.M., see Vasiliev, J.M. (24) 75
Giudice, G., see Roccheri, M.C. (24) 209
Giudice, G., see Sconzo, G. (24) 97
Goto, K., Hayashi, S., Shirayoshi, Y., Takeichi, M. and Kondoh, H.
Exogenous δ -crystallin gene expression as probe for differentiation of teratocarcinoma stem cells (24) 139
- Graniou, M., Chanconie, M. and Ziller, C.
A monoclonal antibody recognizing a common antigen on neurons and fibroblasts in chicken and quail (24) 179
Grunz, H., see Tacke, L. (24) 33
Guernsey, D.L. and Schmidt, T.J.
Corticosterone effects on differentiation and X-ray-induced transformation of C3H/10T1/2 mouse cells (24) 159
- Haffen, K., see Rochette-Egly, C. (24) 119
Hathaway, H.J. and Babiarz, B.S.
Developmental regulation of the monoclonally defined IIC3 antigen during primary and secondary trophoblast differentiation in vitro (24) 55
Hayashi, S., see Goto, K. (24) 139
Hennigar, R.A., see Holthöfer, H. (24) 215
Hinchliffe, J.R., see Hurle, J.M. (24) 149
Holm, K., Risteli, L. and Sariola, H.
Differential expression of the laminin A and B chains in chimeric kidneys (*Rapid Communication*) (24) 223
Holthöfer, H., Hennigar, R.A. and Schulte, B.A.
Glomerular sialoconjugates of developing and mature rat kidneys (24) 215
Hurle, J.M., Ros, M.A. and Hinchliffe, J.R.
Spatial and temporal changes in the pattern of glycosylation of the developing chick limb tissue components as revealed by fluorescent conjugated lectin probes (24) 149
- Iizuka, R., see Suzuki, S. (24) 133
- Jaskoll, T.F., Don-Wheeler, G., Johnson, R. and Slavkin, H.C.
Embryonic mouse lung morphogenesis and type II cytodifferentiation in serumless, chemically defined medium using prolonged in vitro cultures (24) 105
Johnson, R., see Jaskoll, T.F. (24) 105
Juliani, M.H., see Da Silva, A.M. (24) 45
- Karavanov, A.A., see Brodsky, V.Y. (24) 201
Kedinger, M., see Rochette-Egly, C. (24) 119
Kitai, H., see Suzuki, S. (24) 133
Kobayashi, H., see Mochii, M. (24) 67
Komatsu, S., see Suzuki, S. (24) 133
Komazaki, S.
Factors related to the initiation of cell migration along the inner surface of the blastocoelic wall during amphibian gastrulation (24) 25
Kondoh, H., see Goto, K. (24) 139
Korochkin, L.I., see Brodsky, V.Y. (24) 201
Kraemer, M., see Vassy, J. (24) 9
- Lacroix, B., see Rochette-Egly, C. (24) 119
La Farina, M., see Sconzo, G. (24) 97
La Rosa, M., see Roccheri, M.C. (24) 209

- La Rosa, M., see Sconzo, G. (24) 97
- Lehtonen, E., Ordóñez, G. and Reima, I.
Cytoskeleton in preimplantation mouse development (*Review*) (24) 165
- Löwkvist, B., see Emanuelsson, H. (24) 191
- Marshak, T.L., see Brodsky, V.Y. (24) 201
- Mochii, M., Agata, K., Kobayashi, H., Yamamoto, T.S. and Eguchi, G.
Expression of gene coding for a melanosomal matrix protein transcriptionally regulated in the transdifferentiation of chick embryo pigmented epithelial cells (24) 67
- Nosikov, V.V., see Brodsky, V.Y. (24) 201
- Oliva, D., see Sconzo, G. (24) 97
- Ordóñez, G., see Lehtonen, E. (24) 165
- Reima, I., see Lehtonen, E. (24) 165
- Risteli, L., see Holm, K. (24) 223
- Roccheri, M.C., La Rosa, M., Ferraro, M.G., Cantone, M., Cascino, D., Giudice, G. and Sconzo, G.
Stress proteins by zinc ions in sea urchin embryos (24) 209
- Roccheri, M.C., see Sconzo, G. (24) 97
- Rochette-Egly, C., Lacroix, B., Haffen, K. and Kedinger, M.
Expression of brush border calmodulin-binding proteins during human small and large bowel differentiation (24) 119
- Ros, M.A., see Hurle, J.M. (24) 149
- Saad, A.-H., see El Ridi, R. (24) 1
- Sariola, H., see Holm, K. (24) 223
- Schmidt, T.J., see Guernsey, D.L. (24) 159
- Schulte, B.A., see Holthöfer, H. (24) 215
- Sconzo, G., La Rosa, M., La Farina, M., Roccheri, M.C., Oliva, D. and Giudice, G.
Isolation and characterization of a sea urchin hsp 70 gene segment (24) 97
- Sconzo, G., see Roccheri, M.C. (24) 209
- Shirayoshi, Y., see Goto, K. (24) 139
- Slavkin, H.C., see Jaskoll, T.F. (24) 105
- Suzuki, S., Komatsu, S., Kitai, H., Endo, Y., Iizuka, R. and Fukasawa, T.
Analysis of cytoplasmic factors in developmental cleavage of mouse embryo (24) 133
- Tacke, L. and Grunz, H.
Close juxtaposition between inducing chordamesoderm and reacting neuroectoderm is a prerequisite for neural induction in *Xenopus laevis* (24) 33
- Takeichi, M., see Goto, K. (24) 139
- Vasiliev, J.M. and Gelfand, I.M.
Membrane-induced segregation of motile and stable domains in cytoplasm: possible role in morphological differentiation of tissue cells (*Review*) (24) 75
- Vassy, J., Kraemer, M., Chalumeau, M.T. and Fouchier, J.
Development of the fetal rat liver: ultrastructural and stereological study of hepatocytes (24) 9
- Yamamoto, T.S., see Mochii, M. (24) 67
- Zada, S., see El Ridi, R. (24) 1
- Zatsepina, O.V., see Brodsky, V.Y. (24) 201
- Ziller, C., see Graniou, M. (24) 179

Subject Index Volume 24

Actin

Tubulin; Development; *Blastocladia emersonii* (Da Silva, A.M. (24) 45)

Actinoplast

Cytoplasm; Segregation of cytoplasmic domains; Morphological differentiation; Tubuloplast (Vasiliev, J.M. (24) 75)

Adipogenesis

Corticosterone; Differentiation; X-irradiation (Guernsey, D.L. (24) 159)

Amphibia

Gastrulation; Cell migration; Cell adhesion; Extracellular matrix; Fibronectin (Komazaki, S. (24) 25)

Apical ectodermal ridge

Limb development; Lectin; Myogenesis; Chondrogenesis (Hurle, J.M. (24) 149)

Autoradiography

Neural induction; Short distance migration of inducing factors; Electron microscopy (Tacke, L. (24) 33)

Chick embryo; Serotonin (5-hydroxytryptamine); High performance liquid chromatography; Gastrulation; Microtubule; Microfilament (Emanuelsson, H. (24) 191)

Blastocladia emersonii

Tubulin; Actin; Development (Da Silva, A.M. (24) 45)

Calmodulin-binding protein

Human intestine; Differentiation (Rochette-Egly, C. (24) 119)

Cell adhesion

Amphibia; Gastrulation; Cell migration; Extracellular matrix; Fibronectin (Komazaki, S. (24) 25)

2-Cell block

Microinjection; Cell fusion; EDTA; Polyacrylamide gel electrophoresis, 2-dimensional (Suzuki, S. (24) 133)

Cell fusion

2-Cell block; Microinjection; EDTA; Polyacrylamide gel electrophoresis, 2-dimensional (Suzuki, S. (24) 133)

Cell migration

Amphibia; Gastrulation; Cell adhesion; Extracellular matrix; Fibronectin (Komazaki, S. (24) 25)

Cell surface lactosaminoglycans

Mouse blastocyst; Ectoplacental cone; Trophoblast differentiation (Hathaway, H.J. (24) 55)

Chick embryo

Extracellular lectin; Mesonephros; Metanephros (Didier, E. (24) 83)

Serotonin (5-hydroxytryptamine); High performance liquid chromatography; Autoradiography; Gastrulation; Microtubule; Microfilament (Emanuelsson, H. (24) 191)

Chondrogenesis

Limb development; Lectin; Myogenesis; Apical ectodermal ridge (Hurle, J.M. (24) 149)

Corticosteroids and immune system

Reptilian immune response; Ontogeny of lymphoid system; Seasonal changes in immunity; Thymic involution; T and B lymphocytes in reptiles (El Ridi, R. (24) 1)

Corticosterone

Differentiation; Adipogenesis; X-irradiation (Guernsey, D.L. (24) 159)

Cross hybridization

Heat shock protein 70; Sea urchin; DNA sequence (Sconzo, G. (24) 97)

δ -Crystallin gene

Teratocarcinoma; Mo-MuLV LTR; Enhancer; Retinoic acid (Goto, K. (24) 139)

Cytoplasm

Segregation of cytoplasmic domains; Morphological differentiation; Actinoplast; Tubuloplast (Vasiliev, J.M. (24) 75)

Cytoskeleton

Embryo; Morphogenesis; Oocyte; Spectrin; Vinculin (Lehtonen, E. (24) 165)

Development

Stereology; Ultrastructure; Rat liver; Hepatocyte (Vassy, J. (24) 9)

Tubulin; Actin; *Blastocladia emersonii* (Da Silva, A.M. (24) 45)

Differentiation

Calmodulin-binding protein; Human intestine (Rochette-Egly, C. (24) 119)

Corticosterone; Adipogenesis; X-irradiation (Guernsey, D.L. (24) 159)

Differentiation of neurons

Ribosomal gene; Gene redundancy; DNA hybridization in situ (Brodsky, V.Y. (24) 201)

cDNA

Melanosomal matrix protein; Transdifferentiation; Pigmented epithelial cell; Lens cell; Lambda gt11 (Mochii, M. (24) 67)

DNA hybridization in situ

Differentiation of neurons; Ribosomal gene; Gene redundancy (Brodsky, V.Y. (24) 201)

DNA sequence

Heat shock protein 70; Sea urchin; Cross hybridization (Sconzo, G. (24) 97)

Ectoplacental cone

Mouse blastocyst; Trophoblast differentiation; Cell surface lactosaminoglycans (Hathaway, H.J. (24) 55)

EDTA

2-Cell block; Microinjection; Cell fusion; Polyacrylamide gel electrophoresis, 2-dimensional (Suzuki, S. (24) 133)

Electron microscopy

Neural induction; Short distance migration of inducing factors; Autoradiography (Tacke, L. (24) 33)

Embryo

Cytoskeleton; Morphogenesis; Oocyte; Spectrin; Vinculin (Lehtonen, E. (24) 165)

Paracentrotus lividus; Stress protein; Zinc ion (Roccheri, M.C. (24) 209)

Enhancer

Teratocarcinoma; δ -Crystallin gene; Mo-MuLV LTR; Retinoic acid (Goto, K. (24) 139)

Extracellular lectin

Mesonephros; Metanephros; Chick embryo (Didier, E. (24) 83)

Extracellular matrix

Amphibia; Gastrulation; Cell migration; Cell adhesion; Fibronectin (Komazaki, S. (24) 25)

Feather follicle

Neuronal differentiation; Fibroblast; Membrane antigen (Graniou, M. (24) 179)

Fibroblast

Neuronal differentiation; Feather follicle; Membrane antigen (Graniou, M. (24) 179)

Fibronectin

Amphibia; Gastrulation; Cell migration; Cell adhesion; Extracellular matrix (Komazaki, S. (24) 25)

Gastrulation

Amphibia; Cell migration; Cell adhesion; Extracellular matrix; Fibronectin (Komazaki, S. (24) 25)

Chick embryo; Serotonin (5-hydroxytryptamine); High performance liquid chromatography; Autoradiography; Microtubule; Microfilament (Emanuelsson, H. (24) 191)

Gene redundancy

Differentiation of neurons; Ribosomal gene; DNA hybridization in situ (Brodsky, V.Y. (24) 201)

Glomerulogenesis

Lectin histochemistry; Sialoconjugate; Rat kidney (Holthöfer, H. (24) 215)

Heat shock protein 70

Sea urchin; DNA sequence; Cross hybridization (Sconzo, G. (24) 97)

Hepatocyte

Development; Stereology; Ultrastructure; Rat liver (Vassy, J. (24) 9)

High performance liquid chromatography

Chick embryo; Serotonin (5-hydroxytryptamine); Autoradiography; Gastrulation; Microtubule; Microfilament (Emanuelsson, H. (24) 191)

Human intestine

Calmodulin-binding protein; Differentiation (Rochette-Egley, C. (24) 119)

Inductive tissue interaction

Kidney differentiation; Laminin; Laminin chains (Holm, K. (24) 223)

In vitro lung morphogenesis

Pulmonary type II cells; Mouse lung development; Pulmonary surfactant-associated protein (Jaskoll, T.F. (24) 105)

Kidney differentiation

Laminin; Laminin chains; Inductive tissue interaction (Holm, K. (24) 223)

Lambda gt11

Melanosomal matrix protein; Transdifferentiation; Pigmented epithelial cell; Lens cell; cDNA (Mochii, M. (24) 67)

Laminin

Kidney differentiation; Laminin chains; Inductive tissue interaction (Holm, K. (24) 223)

Laminin chains

Kidney differentiation; Laminin; Inductive tissue interaction (Holm, K. (24) 223)

Lectin

Limb development; Myogenesis; Chondrogenesis; Apical ectodermal ridge (Hurle, J.M. (24) 149)

Lectin histochemistry

Glomerulogenesis; Sialoconjugate; Rat kidney (Holthöfer H. (24) 215)

Lens cell

Melanosomal matrix protein; Transdifferentiation; Pigmented epithelial cell; cDNA; Lambda gt11 (Mochii, M. (24) 67)

Limb development

Lectin; Myogenesis; Chondrogenesis; Apical ectodermal ridge (Hurle, J.M. (24) 149)

Melanosomal matrix protein

Transdifferentiation; Pigmented epithelial cell; Lens cell; cDNA; Lambda gt11 (Mochii, M. (24) 67)

Membrane antigen

Neuronal differentiation; Fibroblast; Feather follicle (Graniou, M. (24) 179)

Mesonephros

Extracellular lectin; Metanephros; Chick embryo (Didier, E. (24) 83)

Metanephros

Extracellular lectin; Mesonephros; Chick embryo (Didier, E. (24) 83)

Microfilament

Chick embryo; Serotonin (5-hydroxytryptamine); High performance liquid chromatography; Autoradiography; Gastrulation; Microtubule (Emanuelsson, H. (24) 191)

Microinjection

2-Cell block; Cell fusion; EDTA; Polyacrylamide gel electrophoresis, 2-dimensional (Suzuki, S. (24) 133)

Microtubule

Chick embryo; Serotonin (5-hydroxytryptamine); High performance liquid chromatography; Autoradiography; Gastrulation; Microfilament (Emanuelsson, H. (24) 191)

Mo-MuLV LTR

Teratocarcinoma; δ -Crystallin gene; Enhancer; Retinoic acid (Goto, K. (24) 139)

Morphogenesis

Cytoskeleton; Embryo; Oocyte; Spectrin; Vinculin (Lehtonen, E. (24) 165)

Morphological differentiation

Cytoplasm; Segregation of cytoplasmic domains; Actinoplast; Tubuloplast (Vasiliev, J.M. (24) 75)

Mouse blastocyst

Ectoplacental cone; Trophoblast differentiation; Cell surface lactosaminoglycans (Hathaway, H.J. (24) 55)

Mouse lung development

Pulmonary type II cells; In vitro lung morphogenesis; Pulmonary surfactant-associated protein (Jaskoll, T.F. (24) 105)

Myogenesis

Limb development; Lectin; Chondrogenesis; Apical ectodermal ridge (Hurle, J.M. (24) 149)

Neural induction

Short distance migration of inducing factors; Electron microscopy; Autoradiography (Tacke, L. (24) 33)

Neuronal differentiation

Fibroblast; Feather follicle; Membrane antigen (Graniou, M. (24) 179)

Ontogeny of lymphoid system

Reptilian immune response; Seasonal changes in immunity; Corticosteroids and immune system; Thymic involution; T and B lymphocytes in reptiles (El Ridi, R. (24) 1)

Oocyte

Cytoskeleton; Embryo; Morphogenesis; Spectrin; Vinculin (Lehtonen, E. (24) 165)

Paracentrotus lividus

Embryo; Stress protein; Zinc ion (Roccheri, M.C. (24) 209)

Pigmented epithelial cell

Melanosomal matrix protein; Transdifferentiation; Lens cell; cDNA; Lambda gt11 (Mochii, M. (24) 67)

Polyacrylamide gel electrophoresis, 2-dimensional

2-Cell block; Microinjection; Cell fusion; EDTA (Suzuki, S. (24) 133)

Pulmonary surfactant-associated protein

Pulmonary type II cells; In vitro lung morphogenesis; Mouse lung development (Jaskoll, T.F. (24) 105)

Pulmonary type II cells

In vitro lung morphogenesis; Mouse lung development; Pulmonary surfactant-associated protein (Jaskoll, T.F. (24) 105)

Rat kidney

Glomerulogenesis; Lectin histochemistry; Sialoconjugate (Holthöfer, H. (24) 215)

Rat liver

Development; Stereology; Ultrastructure; Hepatocyte (Vassy, J. (24) 9)

Reptilian immune response

Ontogeny of lymphoid system; Seasonal changes in immunity; Corticosteroids and immune system; Thymic involution; T and B lymphocytes in reptiles (El Ridi, R. (24) 1)

Retinoic acid

Teratocarcinoma; δ -Crystallin gene; Mo-MuLV LTR; Enhancer (Goto, K. (24) 139)

Ribosomal gene

Differentiation of neurons; Gene redundancy; DNA hybridization in situ (Brodsky, V.Y. (24) 201)

Seasonal changes in immunity

Reptilian immune response; Ontogeny of lymphoid system; Corticosteroids and immune system; Thymic involution; T and B lymphocytes in reptiles (El Ridi, R. (24) 1)

Sea urchin

Heat shock protein 70; DNA sequence; Cross hybridization (Sconzo, G. (24) 97)

Segregation of cytoplasmic domains

Cytoplasm; Morphological differentiation; Actinoplast; Tubuloplast (Vasiliev, J.M. (24) 75)

Serotonin (5-hydroxytryptamine)

Chick embryo; High performance liquid chromatography; Autoradiography; Gastrulation; Microtubule; Microfilament (Emanuelsson, H. (24) 191)

Short distance migration of inducing factors

Neural induction; Electron microscopy; Autoradiography (Tacke, L. (24) 33)

Sialoconjugate

Glomerulogenesis; Lectin histochemistry; Rat kidney (Holt-höfer, H. (24) 215)

Spectrin

Cytoskeleton; Embryo; Morphogenesis; Oocyte; Vinculin (Lehtonen, E. (24) 165)

Stereology

Development; Ultrastructure; Rat liver; Hepatocyte (Vassy, J. (24) 9)

Stress protein

Paracentrotus lividus; Embryo; Zinc ion (Roccheri, M.C. (24) 209)

T and B lymphocytes in reptiles

Reptilian immune response; Ontogeny of lymphoid system; Seasonal changes in immunity; Corticosteroids and immune system; Thymic involution (El Ridi, R. (24) 1)

Teratocarcinoma

δ -Crystallin gene; Mo-MuLV LTR; Enhancer; Retinoic acid (Goto, K. (24) 139)

Thymic involution

Reptilian immune response; Ontogeny of lymphoid system; Seasonal changes in immunity; Corticosteroids and immune system; T and B lymphocytes in reptiles (El Ridi, R. (24) 1)

Transdifferentiation

Melanosomal matrix protein; Pigmented epithelial cell; Lens cell; cDNA; Lambda gt11 (Mochii, M. (24) 67)

Trophoblast differentiation

Mouse blastocyst; Ectoplacental cone; Cell surface lactosaminoglycans (Hathaway, H.J. (24) 55)

Tubulin

Actin; Development; *Blastocladiella emersonii* (Da Silva, A.M. (24) 45)

Tubuloplast

Cytoplasm; Segregation of cytoplasmic domains; Morphological differentiation; Actinoplast (Vasiliev, J.M. (24) 75)

Ultrastructure

Development; Stereology; Rat liver; Hepatocyte (Vassy, J. (24) 9)

Vinculin

Cytoskeleton; Embryo; Morphogenesis; Oocyte; Spectrin (Lehtonen, E. (24) 165)

X-irradiation

Corticosterone; Differentiation; Adipogenesis (Guernsey, D.L. (24) 159)

Zinc ion

Paracentrotus lividus; Embryo; Stress protein (Roccheri, M.C. (24) 209)



